### NEW SPECIES AND NEW SYNONYMS OF STIGMODERA (CASTIARINA) (COLEOPTERA: BUPRESTIDAE)

by S. BARKER\*

#### Summary

BARKER, S. (1980) New species and new synonyms of Stigmodera (Castiarina) (Coleoptera: Buprestidae). Trans. R. Soc. S. Aust. 104(1), 1-7, 29 February, 1980.

Stigmodera rudis Carter is reinstated in the sub-genus Casnarina. Thirteen new synonyms are given and two species are resurrected from synonymy. One name has been wrongly synonymised. A lectotype of S. rubrivennis Blackburn is selected. Seven new species of Stigmodera (aliceae, aquila, aurea, hateleyi, inflata, kiatae, mimica) are described and illustrated.

#### Introduction

Despite the wide occurrence of Stigmodera (Castiarina) species in Australia, some have a restricted distribution, are not represented in Museums and are difficult to obtain. Since my catalogue of Stigmodera (Castiarina) (Barker 1979) I have borrowed or collected specimens of a number of species previously unavailable. From a comparison with types, photographs of types and examination of male genitalia, I now recognise seven new species and synonyms that I had missed previously.

### Stigmodera (Castiarina) rudis Carter 1934 FIG. 1

I have examined a complete male specimen, It is a lycid mimic and, except that it has a hairy head, antennae and pronotum, resembles all other Stigmodera (Castiarina) and should be included in the sub-genus. It was collected on flowers of Leptospermum sp. at Lake Dobson National Park, Tasmania, at an elevation of 914 m on 19.i.1951 by J. R. Cunningham. Barker's (1979) key to Stigmodera should be modified so that the second phrase of the 2nd coupler appertaining to Castiarina reads, "seldom with hair on dorsal surfaces of head and pronotum".

#### Additions to synonymy of Stigmodera (Castiarina)

australasiae L. & G. 1837, Mon. Bupr. 2, 32
assimilis Hope 1846, Trans. ent. Soc. Lond. 4,
212 (new synonym)
melbournensis Thomson 1879, Typ. Bupr. App.
1a, 34
timida Kerremans 1898, Annls Soc. ent. Belg,
42, 147

puerilis Kerremans 1898, Annls Soc. ent. Belg.

varminea Saunders 1868, J. Linn. Soc. 9, 474 colligens Kerremans 1890, Bull. Soc. ent. Belg. 1890, 44 (new synonym)

felix Kerremans 1898, Annis Soc. ent. Belg. 42, 142

daysonensis Blackburn 1890, Trans. R. Soc. S. Aust. 13, 155

pulchella Carter 1916, Trans. R. Soc. S. Aust. 40, 135 (new synonym)

deugueti Carter 1927, Proc. Lim. Soc. N.S.W, 52, 225

suttoni Carter 1932, Proc. Linn. Soc. N.S.W. 57, 104 (new synonym)

palagera Carter 1937, Trans. R. Soc. S. Aust. 61, 125 (new synonym)

duaringue Carter 1929, Proc. Linn. Soc. N.S.W., 54, 68

bogania Carter 1930, Proc. Linn. Soc. N.S.W. 55, 534 (new synonym)

inermis Kerremans 1890, Bull. Soc. ent. Belg. 1890, 45

nova Kerremans 1902, Genera Insect. 12, 208 rubella Carter 1931, Aust. Zool. 6, 345 (new synonym)

media Hope 1847, Trans. ent. Sov. Lond. 4, 284 septemnotata Carter 1916, Trans. R. Soc. S. Aust. 40, 86 (new synonym) septemmaculata Blackburn 1892, Trans. R. Soc.

S. Aust. 15, 45 piliventris Saunders 1868, J. Linn. Soc. 9, 474 generosa Kerremans 1898, Annls Soc. ent. Belg.

42. 150 (new synonym) rectifasciata Saunders 1868, J. Linn. Soc. 9, 472 vigilans Kerremans 1898, Annls Soc. ent. Belg. 42, 143 (recognised by Blackburn 1900 p. 42)

rubicunda Carter 1931, Aust. Zool. 6, 346 violatra Deuquet 1956, Proc. Linn. Soc. N.S.W. 81, 156 (new synonym)

rufipennis (Kirby) 1818, Trans. Linn. Soc. 12, 456 crocipennis L & G 1837, Mon. Bupr. 2, 21 crocipennis Hope 1846, Trans. cur. Soc. Lond.

1846, 292 quadrifoveolata Obenberger 1933, Čas čsl. Spol. ent. 30, 69 (new synonym)

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scalaris (Boisduval) 1835, Voyage de l'Astrolobe, 89
cyanicollis (Boisduval) 1835, Voyage de l'Astrolobe, 91
crucigera L & G 1837, Mon. Bupr. 2, 40
viridis L & G 1837, Mon. Bupr. 2, 46
crucigera Hope 1838, Col. Man. 2, 162
macleayi Blackburn 1892, Trans. R. Soc. S.
Aust. 15, 48 (new synonym)
prudens Kerremans 1898, Anuls Soc. ent. Belg.
42, 152
suavis Kerremans 1902, Genera Insect. 12, 210
crucioides Obenberger 1922, Arch. Naturgesch.
88, 118

#### Species resurrected from synonymy

I listed S. gravis Harold, 1869 as a synonym of S. trifasciata L & G, 1837 (Barker 1979, p. 22). S. gravis was a replacement name for S. obscuripennis Saunders, 1868 which is a homonym of S. (Themognatha) obscuripennis Mannerheim, 1837. I have re-examined 10 Western Australian specimens in the South Australian Museum collection. 1 find that they are identical to a coloured photograph of the type of S. gravis and I consider gravis a valid species.

I also listed *S. bucolica* Kerremans, 1898 as a synonym of *S. trifasciata* L & G, 1837. I have re-examined 16 unidentified specimens in the South Australian Museum collection, captured near Port Lincoln on the Eyre Peninsula, S.A., and, on the basis of comparison with a coloured photograph of the type, I consider that they represent *S. bucolica* which I now consider a valid species.

In the catalogue of Stigmodera (Castiarina) I listed S. subnotata Carter, 1933 as a synonym of S. subtincta Carter, 1933. It has been pointed out to me that these are distinct. I have examined material in the South Australian Museum and in the Western Australian Museum and find that the male genitalia are different; I consider both to be valid species. In S. subtincta the last four visible abdominal segments of males are testaceous and of females metallic green. In S. subnotata all visible abdominal segments are testaceous in both sexes.

#### Selection of lectotype of S. rubriventris Blackburn

Describing S. rubriventris Blackburn (1900) p. 47 stated, "In one of the two specimens before me." The syntypes are males, one is in the British Museum, the other in the South

Australian Museum. Most of Blackburn's types are lodged in the British Museum collection and, all other things being equal, I consider that the type should remain with the majority of specimens. I hereby select the male specimen in the British Museum labelled "W.A. 7556, S. rubriventris Blackburn" as the lectotype of the species.

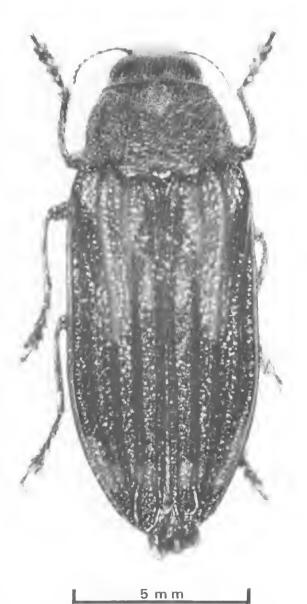


Fig. 1. Male Stigmodera (Castiarina) rudis Carter.

The abbreviations used in the text for museum and private collections are as follows: WADA, Western Australian Department of Agriculture, South Perth; GB, Mr G. Burns, Mornington, Vic.; ANIC, Australian National Insect Collection, C.S.I.R.O., Canberra; JH, Mrs J. 1. Harslett, Amiens, Qld; AM, Australian Museum, Sydney; SAM, South Australian Museum, Adelaide; WAM, Western Australian Museum, Perth; MP, Mr M. Powell, Mr. M. Golding & Mr T. M. S. Hanlon, Perth; NMV, National Museum of Victoria, Melbourne.

## Stigmodera (Castiarina) mimica sp. nov. FIGS 2A, 3A

Types: Holotype: &, Goldsborough near Gordonvale, Qld, 5.i.1962, J. G. Brooks, SAM 121, 106. Allotype: \$\partial\$, same data as holotype, SAM 121, 107. Paratype: \$\bar{\Bar}\$, Marmor, Qld, xi.1946, \$W. du Boulay, WAM.

Colour: Head, antennae black with blue reflections. Pronotum, scutellum black. Elytra redbrown with black anterior margin, entire apex black, curving upwards from margin 2/3 along its length. Undersurface and legs black with blue reflections. Hairs silver.

Shape and sculpture: Head with small close punctures, median groove between eyes, muzzle short. Antennae: segments 1-4 obconic, 5-11 toothed. Pronotum with small close punctures; median basal fovea projecting forwards as median impressed line to anterior margin; glabrous basal notch on each side 1/3 from margin to centre; anterior to basal notches a large irregular depression on each side; anterior margin projecting forwards in middle; basal margin bisinuate; laterally rounded out from base, widest 1/3 from base, rounded to apical margin. Scutellum: heartshaped; without punctures; convex in middle; both lobes elongate. Elytra: three broad costae on each side, scutellary, 3rd and 5th intervals; other intervals punctate-striate and flat at basal end, convex at apical end, punctured and rough; laterally angled out from base, rounded at shoulder, concave until after middle, rounded to apex which is bispinose; spines very small, rounded between; apices slightly diverging. Undersurface with small close punctures and short close hairs. Last visible abdominal segment truncate in both sexes. Male with

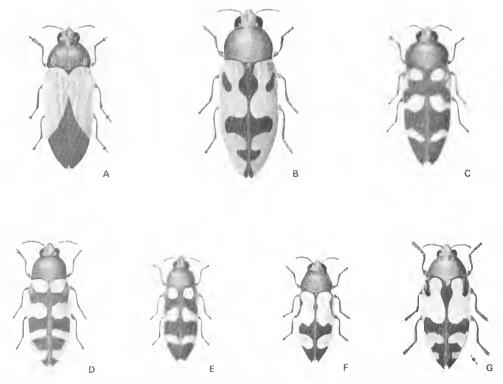


Fig. 2. (x 3) natural size. A. *Stigmodera mimica* sp. nov. B. *S. hateleyi* sp. nov. C. *S. inflata* sp. nov. D. *S. aquila* sp. nov. E. *S. aliceae* sp. nov. F. *S. kiatae* sp. nov. G. *S. aurea* sp. nov.

reduced tarsal pads on 2nd and 3rd legs, pads absent on segments 1–3 replaced with single median spine, pad present on segment 4 only.

Size: Males 11.7 x 4.2 mm (2), Females 12.3 x 4.6 mm (1).

Distribution: North coastal Queensland.

General remarks: A lycid mimic belonging in the S. sexplagiata group on the basis of male genitalia and modified tarsal pads in male. Another member of the group S. erythroptera is also a lycid mimic and has the same elytral colour. S. mimica differs from that species in that it has fovea on the margins of the pronotum: S. erythroptera does not. S. mimica has a different elytral pattern with more black than in S. erythroptera. Elytral marking on S. mimica is like that of S. nigriventris, also a lycid mimic without costae on the elytra and not a member of the S. sexplagiata group.

### Stigmodera (Castiarina) hateleyi sp. nov. FIGS 2B, 3B

Types: Holotype: &, Kiata, Vic., K. Hateley, SAM I21, 108. Allotype: \( \bar{2}\), Kiata, Vic., K. Hateley, SAM I21, 109. Paratypes: \( 5 \) & 2 \( \bar{2}\), same data as holotype, SAM; \( 2 \) & 2 \( \bar{2}\), Wurarga, W. Aust., 28.x.1978, M. Powell & M. Golding, MP, SAM; \( 1 \) \( \bar{2}\), Maranalgo Stn, W. Aust., 10.ix.1978, G. Barron, MP; \( 1 \) \( \bar{2}\), Lake Grace, W. Aust., 16.x.1970, K. & E. Carnaby, SAM; \( 2 \) & \( 1 \) \( \bar{2}\), Australia, Blackburn & White, SAM.

Colour: Head, antennae, pronotum, most of undersurface and legs dark bluc with yellow and green reflections, last visible abdominal segment mainly brown in male. Scutellum black. Elytra red-brown with following black markings: narrow anterior margin; elongate angled mark on each shoulder, rounded spot between on suture all remnant of a pre-medial fascia; post-medial fascia projecting forwards in middle of each side and concave backwards, not reaching margin; pre-apical mark extending over three intervals, concave forwards; marks all connected down suture and covering apex. Undersurface hairs silver.

Shape and sculpture: Head: closely and shallowly punctured; median groove between eyes; narrow ridge inside each antennal cavity; muzzle short. Antennae: segments 1–3 obconic, 4–11 toothed. Pronotum: shallowly punctured; small median basal fovca extending forwards to middle as glabrous line; basal notch on either side closer to margin than to middle; projecting forwards in middle of apical margin; basal margin almost straight; laterally parallel-sided at base, rounded to

apex, widest 1/3 distance from base. Scutcllum: heart-shaped, with few punctures. Elytra punctate-striate, intervals convex and pitted with shallow punctures; laterally parallel-sided at base, angled outwards, rounded at shoulder then concave until after middle, rounded then tapered to pre-apical area, then rounded to apex which has no marginal spine, indented to suture which has minute spines; apices not diverging. Undersurface shallowly punctured, sparsely haired. Last visible abdominal segment truncate in males, rounded and narrowed in females.

Size: Males 14.1  $\pm$  0.37 x 5.1  $\pm$  0.19 mm (10). Females 14.6  $\pm$  0.36 x 5.6  $\pm$  0.13 mm (8).

Distribution: Western Australia and Victoria. General remarks: The elytral pattern and colour are like those of S. rubriventris Blackburn. However, S. hateleyi is a smaller species, the male does not have a red abdomen and male genitalia is different. Named after Mr K. Hateley.

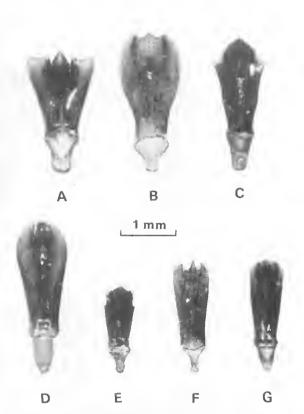


Fig. 3. Photomicrographs of male genitalia of Stigmodera (Castiarina) species: (A) mimica; (B) hateleyi; (C) inflata; (D) aquila; (E) aliceae; (F) kiatae; (G) aurea.

#### Stigmodera (Castiarina) inflata sp. nov. FIGS 2C, 3C

Types Holotype: & Baker's Creek Falls, Armidale, N.S.W., 12.ii.1979, T. J. Huwkeswood, SAM 121, 110, Allotype: P, same data as holotype, SAM 121, 111. Parmypes: 6 & & 13 P, Dungar Falls, Armidale, N.S.W., 22/23.ii.1978, B. J, & T. J. Huwkeswood, SAM: 18 & & 3 P, same data as holotype, SAM: 1 & & 4 P, Dangar Falls, Armidale, N.S.W., 10/14.ii.1979, T. J. Hawkeswood, SAM.

Colour: Head, antennae, scutellum, pronotum, undersurface and legs bronze. Elytra yellow with following black markings: anterior margin: pre-medial fascia expanded at outside ends into vittae reaching basal and lateral margins anteriorly and lateral margin posteriorly, enclosing basal yellow spot on each side and a spot on each shoulder; wide post-medial fascia reaching margin, concave in middle of each side anteriorly and posteriorly; mark covering whole apex; all marks connected down suture. Hairs silver.

Shape and sculpture: Head: with close shallow punctures; median groove hetween eves; muzzle short. Antennae: segments 1-4 obconic. 5-11 toothed. Pronotum closely punctured: shallow median basal fovea projecting forwards to apex as median impressed line; anterior margin straight; basal margin bisinuate; laterally rounded from base, inflated in middle, rounded to apex. Scutellum: shield-shaped; concave in middle; with punctures, Elytra punctate-striate, intervals convex more so at base than apex; laterally angled out from base, rounded at shoulder, convex until after the middle then rounded and tapered to apex which is bispinose; marginal spine larger than sutural spine, rounded and indented between; apices slightly diverging. Undersurface with shallow punctures, covered in moderately long hair. Last visible abdominal segment subtruncate in male, rounded in female. Tarsal pads modified on feet of males: 1st leg, tarsal pads absent on segments 1 & 2, reduced on 3; 2nd leg, tarsal pad absent on segment 1, reduced on 2; 3rd leg, tarsal pad on segment 1 minute, reduced on 2 & 3; on each foot central spine present on undervurface of tarsal segments 1. 2 & 3 getting progressively smaller in that order.

Size: Males  $10.9 \pm 0.12 \times 3.9 \pm 0.04$  mm (26), Females  $11.7 \pm 0.17 \times 4.4 \pm 0.09$  mm (21),

Distribution: New England district, N.S.W.

General remarks: Close to S. wilsoni on similarities in male genitalia, but is larger than that species. The pronotum is more prominently inflated in the new species. In S. wilsoni the only shoulder marking is a single vitta on each side. In S. inflata the vittae are confluent with a premedial fascia. All specimens were collected on the flowers of Bursaria spinosa.

#### Stigmodera (Castiarina) aquila sp. nov. FIGS 2D, 3D

Types: Holotype: J. Gleneagle, W. Aust., 15.i.1971, K. T. Richards, ANIC. Paratypes: 4 J., same data as holotype, SAM & WADA.

Colour: Head, antennae, pronotum, scutellum, undersurface and legs dull green. Elytra yellow with following black markings: anterior margin; pre-medial fascia projecting forwards to lateral margin from anterior end only; post-medial fascia reaching margin, projecting forwards on each side from near margin; pre-apical fascia not reaching margin; marks all connected down suture expanded at apex. Undersurface hairs silver.

Shape and sculpture: Head: closely punctured; median groove between eyes; muzzle short. Antennae: segments 1-3 obconic, 4 1-toothed, 5-11 toothed. Protonum: with close punctures: median basal fovea; projecting forwards in middle of apical margin; basal margin barely bisinuate: laterally parallel-sided at base. rounded at apex, widest before the middle. Sentellum: heart-shaped; with punctures. Elytra: punctate-striate, intervals slightly wrinkled, convex at apex; laterally angled out from base. rounded at shoulder, faintly concave until after middle then rounded to apex which is bispinose; marginal spine larger than sutural, rounded and indented between; apices slightly diverging. Undersurface with close, shallow punctures; moderately hairy; hairs long, Last visible abdominal segment truncate in male. Size: Males 11,0  $\pm$  0.34 x 3.9  $\pm$  0.19 mm (5). Distribution: Darling Ranges, Western Austra-

General remarks: Male genitalia of this species show similarities to those of S. scalaris. However, S. scalaris has alternate intervals on the elytra slightly raised and the anterior margin of the pronotum is straight. Also the premedial fascia is represented by two spots on the shoulder. S. scalaris is found only in eastern Australia and neither species is represented in South Australia. All specimens were collected on Assartea sp.

# Stigmodera (Castiarina) aliceae sp. nov. FIGS 2E, 3E

Types: Holotype: ♂, Montacute, Mt Lofty Rgs, S. Aust., 3.xi.1963, S. Barker, SAM I21, 129. Allotype: ♀, same data as holotype, SAM I21, 130. Paratypes: 2 ♂, Murray Bridge, Lea, SAM; 1 ♂, Mt Lofty Rgs, 4.xii.1964, N. McFarland, SAM; 5 ♂ & 5 ♀, same data as holotype, SAM; 21 ♂ & 5 ♀, Athelstone, S. Aust., 22.x.1966, McFarland & Newberry, SAM; 1 ♂, Horsnell's Gully, 12.xi.1967, S. Barker, SAM; 2 ♂ & 2 ♀, Para Wirra N.P., S. Aust., 7.xi.1971, S. Barker, SAM; 3 ♂ & 1 ♀, Uraidla, S. Aust., 23/28.xii.1974, A. Wells, SAM; 1 ♂, Sommerton, S. Aust., SAM; 1 ♂, S. Aust., SAM;

Colour: Head, antennae, scutellum, undersurface and legs blue. Elytra yellow with following black markings with purple reflections: basal margin; pre-medial fascia expanded at outside ends into vittae reaching basal and lateral margins anteriorly and lateral margin posteriorly, enclosing basal yellow spot on each side and one on each shoulder; wide postmedial fascia reaching margin; mark covering whole apex; all marks connected down suture. Hairs silver.

Shape and sculpture: Head: closely punctured: median groove between eyes; muzzle short. Antennae: segments 1-4 obconic. toothed. Pronotum: closely punctured; median basal fovea extending forwards as thin glabrous line almost to apex; basal notches on each side closer to margin than centre; projecting forwards in middle of apical margin, basal margin bisinuate; laterally parallel-sided at base then rounded to apex, widest before middle. Scutellum: heart-shaped; with puncturcs. Elytra: punctate-striate, intervals convex, more so at apex than base; laterally from base, rounded at angled outwards shoulder, concave until after middle, rounded to apex which is bispinose; both spines small, rounded and indented between; apices diverging slightly. Undersurface shallowly punctured; sparse very short hair. Last visible abdominal segment subtruncate in male, rounded in female. Tarsal pads modified on feet of male: tarsal pads absent on segments 1 & 2 on all feet, single central spine on undersurface of segments 1-3 on all feet in descending size from 1-3.

Size: Males  $8.3 \pm 0.1 \times 2.9 \pm 0.04 \text{ mm}$  (38). Females  $8.5 \pm 0.22 \times 3.0 \pm 0.08 \text{ mm}$  (14). Distribution: South Australia.

General remarks: Close to S. cruentata (Kirby) on similarities in male genitalia. The two spe-

cics differ in the pattern of reduction of tarsal pads in males. Named after Mrs A. Wells,

# Stigmodera (Castiarina) kiatae sp. nov. FIGS 2F, 3F

Types: Holotype: ♂, Kiata, Vic., xi.1967, K. Hateley, SAM 121, 131. Allotype: ♀, Kiata, Vic., xi.1967, K. Hateley, SAM 121, 132. Paratypes: 3 ♂, Big Desert, Vic., 17/19.xi.1977, G. Burns, GB; 2 ♂ & 2 ♀, same data as holotype, SAM; 1 ♂ & 1 ♀, Big Desert, Vic., 4.xi.1976, G. Burns, NMV & GB.

Colour: Head, pronotum, scutellum, undersurface and legs purple-bronze. Elytra yellow with following dark blue markings: anterior margin; vitta from outer edge of anterior margin running to lateral margin, enclosing elongate yellow mark on shoulder; rounded mark on suture remnant of pre-apical fascia; postmedial fascia expanded on suture and middle of each elytron not reaching lateral margin; apical mark covering whole apex, all marks connected along suture. Hairs silver.

Shape and sculpture: Head: closely punctured; median groove between eyes; muzzle short. Antennae: segments 1-3 obconic, toothed. Pronotum closely punctured; small median basal fovea; anterior margin straight: margin barely bisinuate; laterally rounded from base, widest 4-distance to apex, slightly tapered to apex. Scutellum: heartshaped; without punctures. Elytra punctatestriate, intervals flat at apex, more rounded at base; laterally slightly angled out from base, rounded at shoulder then concave until after middle, rounded and tapered to apex which is bispinose; apical spine large, sutural spine small, rounded and indented between; apices slightly diverging; sub-serrate lateral margin from post-medial region to apex. Undersurface with close shallow punctures, larger on pre-sternal sclerites than on abdomen; hairy, hairs moderately long. Last visible abdominal segment truncate in both sexes.

Size: Males  $9.2 \pm 0.20 \times 3.3 \pm 0.07 \text{ mm}$  (7). Females  $10.0 \pm 0.21 \times 3.6 \pm 0.07 \text{ mm}$  (4).

Distribution: Big and Little Descrt areas, Victoria.

General remarks: This species is distinct from any other on the basis of male genitalia.

### Stigmodera (Castiarina) aurea sp. nov. FIGS 2G, 3G

Types: Holotype:  $\mathcal{S}$ , 18 km E. of Maryborough, Qld, on Leptospermum sp., 5.xi.1975, S. Barker, SAM I21, 133. Allotype:  $\mathcal{S}$ , same data as holo-

type, SAM I21, 134. Paratypes: 1 \( \text{P}, \) same data as holotype, SAM; 4 \( \text{P}, \) Maryborough, Qld, xi.1956, E. Smith, NMV; 1 \( \text{P}, \) Maryborough, 12.xii... MIM; ANIC; 1 \( \text{P}, \) Indooroopilly, 11.xi.1933, ANIC; 2 \( \text{P}, \) Wide Bay, Qld, AM: 1 \( \text{P}, \) Rockhampton, Qld, 10.i,1946, JH; 2 \( \text{P}, \) & 3 \( \text{P}, \) Qld, du Boulay, WAM.

Colour: Head, antennae, pronotum, scutellum black with olive-green reflections. Undersurface and legs olive green, Elytra yellow at basal end, apical end bright orange, with the following black markings: basal margin; short vitta on each shoulder reaching lateral and basal margins; basal elongate rounded mark on suture; post-medial fascia expanded on suture and close to margin, reaching margin; preapical fascia not reaching margin; mark covering apices; all marks connected down suture, the last two broadly. Hairs silver.

Shape and sculpture: Head with small shallow punctures; median groove between eyes; muzzle short. Antennae: segments 1-3 obconic, 4-11 toothed. Pronotum with small shallow punctures; basal fovea projecting forwards to middle as glabrous line; basal notch on each side closer to margin than to middle; anterior margin projecting forwards in middle; basal margin bisinuate; laterally rounded from base, gradually narrowing to apex, basal angles upwards. Scutellum: heart-shaped, turned sides folded inwards from centre; without punctures. Elytra punctate-striate, the intervals convex and smooth, the margin flattened; laterally angled out from base, rounded shoulder, concave until after middle, rounded and narrowed to apex which is bispinose; marginal spine large, sutural spine very small, deeply indented between. Undersurface with close shallow punctures; moderately hairy, hairs medium length. Last visible abdominal segment, rounded and pushed in in middle in both sexes. Males have modified tarsal pads on 3rd leg, segments 1 & 2 have reduced pads, spines not present.

Size: Males  $8.9 \pm 0.9 \times 3.2 \pm 0.03 \text{ mm } (9)$ , Females  $10.5 \pm 0.09 \times 3.9 \pm 0.05 \text{ mm } (9)$ . Distribution: South and central coastal Queensland.

General remarks: Close to S. alternecostata on the basis of similarities in male genitalia. However, S. aurea is a smaller species, the pronotum is continually narrowed from the base whereas in S. alternecostata the pronotum is widest before the middle. Sculpture and colour pattern of the elytra also differ.

#### Acknowledgments

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restidae). Trans. R. Soc. S. Aust. 103, I-23.
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# SOME STRONGYLE NEMATODES (AMIDOSTOMUM SPP.) FROM AUSTRALIAN BIRDS

BY PATRICIA M. MAWSON

### **Summary**

Amidostomum acutum is recorded from Anas superciliosa, A. platyrhynchos, Stictonetta naevosa, Querquedula gibberifrons, Tadorna radjah and Himantopus leucocephalus, A. anseris from Cereopis novaehollandiae; A. cygni from Cygnis atratus; A. biziurae from Biziaura lobata. Measurements of most specimens examined and morphological notes on A. cygni and A. biziurae are given. A new species, A. tribonyx, close to A. acutum, but distinguished by shorter spicules and very large papillae, is described from Tribonyx ventralis.